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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,086	11/29/2004	Eiji Kasutani	18463	9654	
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	Paul J Esatto Jr Scully Scott Murphy & Presser			PATEL, JAYESH A	
400 Garden City Plaza Suite 300 Garden City, NY 11530			ART UNIT	PAPER NUMBER	
			2624		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/516,086	KASUTANI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jayesh A. Patel	2624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Se	eptember 2007.					
· <u> </u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)	re withdrawn from consideration	1.				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>29 November 2004</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

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Response to Arguments

Applicant's arguments filed on 09/21/2007 have been fully considered but they are not persuasive.

1. Regarding claims 1-3 and 9-10 applicant argues on Page 9 that Bruckhaus does not however use this color information to calculate a representative color layout feature representative of the image sequence from a group of layout features, the examiner disagrees. Bruckhaus discloses this starting from abstract in which the "unit extractor 215" is a feature-extracting unit and the "image engine" generates an image representative of the sequence based on the unit. Bruckhaus further disclose at (Col 4 Lines 38-43) where the unit is a set of integral pixels representing a colored layout features such as orange colored pixels. After the unit extractor extracts the colored layout features (units), the unit distinction engine looks for the common pixel groupings in the frames of the selected sequence and recognizes the like units (color layout features) at (Col 5 Lines 1-9). Bruckhaus further disclose the "unit predominance engine 225" which determines and computes the predominance of each unit by examining unit attributes (color brightness or luminance, motion etc) at (Col 5 lines 16-25). Bruckhaus further disclose at (Col 5 Lines 32-34 and 43-45) "unit representation engine 230" which selects the units that best represents the video sequence based on the information from the predominance engine. Therefore Bruckhaus clearly discloses that the color layout features are extracted by the "unit extractor 215" and "unit predominance engine 225" and the

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"unit representation engine 230" computes or calculates the best image sequence representation of the selected units (color layout features).

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Applicant further argues on (Page 10 Lines 1-5) that, Bruckhaus does not disclose the color layout features defined in the specifications such as color luminance etc, the examiner disagrees. Bruckhaus discloses attributes (color brightness and motion that are color luminance and difference in color due to the motion at (Col 5 Lines 16-25). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

2. Regarding Claims 12-15,22 and 23 applicant argues on page 10 Lines 14-19 that Nagasaka (US 6400890) fails to disclose calculating a representative color layout feature representative of an image, the examiner disagrees. Nagasaka discloses this in Figs 1-5. Nagasaka further discloses in Fig 2 "feature table generator 110 and feature table 114" which shows the representative image (calculating the compressed image representative of the extracted features at Col 5 Lines 35-53) from the features (color of the frames) extracted by the "frame feature extractor 106". Therefore Nagasaka clearly discloses the final image representative is calculated (compressed to minimum quantity) from the extracted features by the above-mentioned units.

3. The newly amended Claim 19 is not part of the original species I election, therefore it has not been considered. See the response to requirement for restrictions filed on November 29,2004 by the applicant.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 9-10are rejected under 35 U.S.C. 102(b) as being anticipated by Bruckhaus (US 6052492) hereafter Bruckhaus.

4. Regarding Claim 1, Bruckhaus discloses an image description system in (Figs 1,2 and 3) comprising: a feature extracting unit (Element 215 Fig 2) extracting color layout features from respective of frames of an image sequence at (Col 4 Lines 35-56 and Col 10 Lines 25-41); and a representative feature calculating unit (Element 230 Fig 2) calculating a representative color layout feature

representative of said image sequence from a group of said layout features of all frames extracted by said feature extracting unit at (Col 8 Lines 24-41 and Col 10 Lines 25-46).

- 5. Regarding Claim 2, Bruckhaus discloses an image description system (Figs 1,2 and 3) comprising: a feature extracting unit at (Element 215 Fig 2) extracting color layout features from respective of frames of an image sequence at (Col 4 Lines 35-56 and Col 10 Lines 25-41); a representative feature calculating unit at (Element 230 Fig 2) calculating a representative color layout feature representative of said image sequence from a group of said color layout features extracted by said feature extracting unit at (Col 8 Lines 24-41 and Col 10 Lines 25-46); and a representative layout feature storage unit storing said representative color layout feature (Memory 900 Figure 9) calculated by said representative feature calculating unit at (Col 8 Lines 24-41 and Col 10 Lines 25-46).
- 6. Regarding Claim 3, Bruckhaus discloses an image description system (Figs 1,2 and 3) comprising: a feature extracting unit at (Element 215 Fig 2) extracting color layout features from respective of frames of an image sequence at (Col 4 Lines 35-56 and Col 10 Lines 25-41); a representative feature calculating unit (Element 230 Fig 2) calculating a representative color layout feature representative of said image sequence from a group of said color layout features

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extracted by said feature extracting unit at (Col 8 Lines 24-41 and Col 10 Lines 25-46); a representative layout feature storage unit storing said representative color layout feature (Memory 900 Figure 9) calculated by said representative feature calculating unit; and a layout feature group storage unit storing said group of color layout features (Memory 900 Figure 9) calculated by said feature extracting unit at (Col 4 Lines 35-44 and Lines 53-56).

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- 7. Regarding Claim 9, Bruckhaus discloses an image description software product embodied on a computer readable medium, said software product having instructions executable on a computer for performing the steps (Figures 1 and 2) comprising: extracting color layout features from respective of frames of an image sequence; and calculating a color layout feature representative of said image sequence from a group of said color layout features extracted by said feature extracting function at (Col 3 Lines 24-40 and Col 4 Lines 1-11).
- 8. Regarding Claim 10, Bruckhaus discloses an image description method comprising: extracting color layout features from respective of frames of an image sequence by an (Element 215 Fig 2); and calculating a color layout feature representative of said image sequence from a group of said color layout features extracted in said extracting at (Col 8 Lines 24-41 and Col 10 Lines 25-46).

Claims 12-15, 22 and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagasaka et al. (US 6400890) hereafter Nagasaka.

9. Regarding Claim 12, Nagasaka discloses an image identification system (Figs 1,2 and Col 4 Lines 57-67 through Col 5 Lines 1-33) comprising: a representative layout feature storage unit (Fig 1 Element 9, Col 5 Lines 11-15) storing a color layout feature representative of an image sequence (Fig 2 Element 116,118 and 120) as a representative color layout feature (Col 9 Lines 37-43); a feature extracting unit (Element 106 Fig 2) extracting color layout features from respective of frames of a query image sequence; a representative feature calculating unit calculating a representative color layout feature representative of said query image sequence (Fig 2 element 100 and Col 5 Lines 1-3) from a group of said color layout features extracted by said feature extracting unit (Element 106 Fig 2); and an image sequence selecting unit selecting a sequence which resembles said query image sequence (Fig 2 element 100 and Col 5 Lines 1-3) by comparing (Fig 2 Element 130) said representative color layout feature calculated by said representative feature calculating unit with said representative color layout feature stored in said representative layout feature storage unit (Fig 2 Element 122 and Col 5 Lines 15-19). The feature comparator (Fig 2 Element 130) performs the comparison and the unit 128 retrieves the results.

10. Regarding Claim 13, Nagasaka discloses an image identification system (Figs 1,2 and Col 4 Lines 57-67 through Col 5 Lines 1-33) comprising: a representative layout feature storage unit (Fig 1 Element 9, Col 5 Lines 11-15) storing a color layout feature representative of an image sequence (Fig 2 Element 116,118 and 120) as a representative color (Col 9 Lines 37-43) layout feature; a layout feature group (array of features) storage unit storing color layout features associated with respective of frames of said image sequence (Fig. 1 Element 9 and Col 5 Line 20); a feature extracting unit (Element 106 Fig 2) extracting color layout features from respective of frames of a query image sequence (Fig 2 element 100 and Col 5 Lines 1-3); a representative feature calculating unit (Element 106,110 Fig 2) calculating a representative color layout feature (Fig 2 Elements 106,110,112 and 114) representative of said query image sequence from a group of said color layout features extracted by said feature extracting unit (Element 106, Fig 2); an image sequence selecting unit selecting an image sequence which resembles said query image sequence (Fig 2 Element 100 and 102) by comparing (Fig 2 Element 130) said representative color layout feature calculated by said representative feature calculating unit (Fig. 2 Element 122 and Col 5 Lines 15-19) with said representative color layout feature stored in said representative layout feature storage unit; and an identification unit matching (Fig 2 Element 130) said group of color layout features extracted by said feature extracting unit (Element 122 Fig 2) against

Element 9) as to said image sequence selected by said image sequence selecting unit (Fig 2 Elements 100,102 and 104). Nagasaka also discloses a case where queried images are prepared beforehand (storage) and target image is retrieved is used. Nagasaka further discloses where target images are queried images (Col 8 Lines 54-59).

- 11. Regarding Claim 14, Nagasaka discloses the image description system wherein said representative feature calculating unit calculates average values of respective elements of a color layout feature extracted by said feature extracting unit as a said representative color layout feature in (Figs 1,2 and Col 9 Lines 37-43).
- 12. Regarding Claim 15, Nagasaka discloses wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracted by said feature extracting unit in any of ascending order and descending order, and calculates a median as said representative color layout feature in (Figs 1,2 and Col 14 Lines 20-36).
- **13.** Regarding Claim 22, Nagasaka discloses the image identification system according to claim 13. Nagasaka further discloses wherein said representative feature calculating unit calculates average values of respective elements of a

color layout feature extracted by said feature extracting unit as said representative color layout feature (Figs 1,2 and Col 9 Lines 37-43).

14. Regarding Claim 23, Nagasaka discloses the image identification system according to claim 13. Nagasaka further discloses wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracting unit in any of ascending order or descending order, and calculates a median as said representative color layout feature (Figs 1,2 and Col 14 Lines 20-36).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruckhaus in view of Nagasaka et al. (US 6400890) hereafter Nagasaka.

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15. Regarding Claim **4**, Bruckhaus discloses the image description system according to claim **1**. Bruckhaus however is silent and does not disclose wherein said representative feature calculating unit calculates average values of respective elements of a color layout feature extracted by said feature extracting unit as a said representative color layout feature.

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Nagasaka discloses the image description system wherein said representative feature calculating unit calculates average values of respective elements of a color layout feature extracted by said feature extracting unit as a said representative color layout feature in (Figs 1,2 and Col 9 Lines 37-43). Nagasaka discloses the method and apparatus performs a high-speed retrieval of video images by the help of features at (Col 1 Lines 9-11). Both Bruckhaus and Nagasaka are from the same field of endeavor and are analogous art, therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the teachings of Nagasaka in the system and method of Bruckhaus for the above reasons.

16. Regarding Claim 5, Bruckhaus discloses the image description system according to claim 1. Bruckhaus is silent and however does not disclose wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracted by said feature extracting unit in any

of ascending order and descending order, and calculates a median as said representative color layout feature.

Nagasaka discloses wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracted by said feature extracting unit in any of ascending order and descending order, and calculates a median as said representative color layout feature in (Figs 1,2 and Col 14 Lines 20-36).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayesh A. Patel whose telephone number is

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571-270-1227. The examiner can normally be reached on M-F 7.00am to 4.30 pm (5-4-9). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jayesh Patel 10/16/07

SUPERVISORY PATENTEXAMINER